15 January 1948

Chief, FBIB Attention: Chief, Field Division

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Chief Engineer. FBIB letter of 2 January 1948 on Okinawa versus Comments re Kausi monitoring.

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25X1 analysis of reception on Okinawa is very good-as far as he has gone. Several essential factors are missing, however. They are: first, a qualified study of the "Log of Reception Ratings" taken during the reception survey on Okinawa, second, a qualified engineering interpretation of the overall reception problem, and third, an unprejudiced viewpoint to Pacific-wide monitoring.

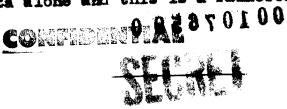
Before these three factors are developed briefly, it is essential to state that I have a great deal of faith in ability to develop schedules and conduct cruising operations. He is very good at this work-and he knows However, his judgement of overall receiving conditions and possibilities is very meak due to an almost complete lack of knowledge of the technical phases of the problem. actually has no one to advise him on these problems.

The three factors listed in the first paragraph will now be elaborated upon.

1. Qualified Study of Log of Reception Ratings In any reception test it is difficult to set up test antennae which will give results equivalent to antennae which would be used in an actual monitoring station. Hany short cuts and approximations must be taken. However, a qualified engineer knows how to compare results of a test antenna with results expected from a well designed operational antenna. Also, in a test, enough antennae cannot be set up to cover all stations which might be logged for reception results. In the Okinawa test, antennae were set up only on specific directions to determine primerily what reception would be like from areas from which reception was in doubt, quantitatively, to the test engineer.

No one can make an accurate and qualified conclusion using the test data directly. All test data must be correctly interpreted. Seldom is test data direct reading. have based their conclusions on the test data alone and this is a falaceous base.

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